

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/033269 A3

(51) International Patent Classification⁷: C12N 15/00,
15/11, 15/09, A61K 48/00

(21) International Application Number:
PCT/US2004/019603

(22) International Filing Date: 18 June 2004 (18.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/479,425 18 June 2003 (18.06.2003) US

(71) Applicant (for all designated States except US): THE
WISTAR INSTITUTE [US/US]; 3601 Spruce Street,
Philadelphia, PA 19104-4268 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ERTL, Hildegund, C.,
J. [DE/US]; 1929 W. Montgomery Avenue, Philadelphia,
PA 19085 (US).

(74) Agents: LICATA, Jane, Massey et al.; Licata & Tyrrel
P.C., 66 E. Main Street, Marlton, NJ 08053 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
22 December 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS FOR INDUCING AN IMMUNE RESPONSE VIA ORAL ADMINISTRATION OF AN ADENOVIRUS

(57) Abstract: The present invention provides a method for inducing an immune response to an adenovirus in a subject which has been pre-exposed to an adenovirus or adenoviral vector. The invention further provides a method for inducing a mucosal immune response to an antigen. The methods of the invention are carried out by oral administration of adenoviral vectors.

WO 2005/033269 A3